at1110paper_practice_test (v44)

1. Solve the equation.
$$(2x + 7)(8x + 9) \;=\; 0$$

2. Factor the expression.
$$x^2 + 3x - 40$$

3. Solve the equation with factoring by grouping.
$$15x^2 - 20x + 18x - 24 \;=\; 0$$

4. Expand the following expression into standard form.
$$(7x + 9)(7x - 9)$$

5. Expand the following expression into standard form.

$$(2x - 9)^2$$

6. Solve the equation.

$$9x^2 - 18x + 2 \; = \; 2x^2 + 5x - 4$$

7. Factor the expression.

$$64x^2 - 81$$

8. Expand the following expression into standard form.

$$(8x - 3)(6x + 7)$$